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# (54) INK JET RECORDING SHEET

(57) Abstract:

PROBLEM TO BE SOLVED: To increase the rate of ink absorption, make a drying property fast after printing, and improve the glossiness by having a layer containing the specific rate of a water soluble polymer and a layer containing a synthetic silica of a specific average particle diameter of primary particles by a vapor phase method from the part near the support body.

SOLUTION: This is based on a fundamental concept in which a vapor phase method silica of fine particles is disposed on a layer consisting of a water soluble polymer, and printed ink is permeated through a lower layer promptly to subsequently be absorbed by swelling of a water soluble polymer. Also, a synthetic silica having an average particle diameter of 50 nm or lower of vapor phase method silica primary particles used is required to be 5 g/m2. In addition, the content weight of the water soluble polymer is required to be 2 g/m2 or more. Furthermore, the combination and balance of both layers are important in a layer containing a large quantity of a vapor phase silica and a layer containing a large quantity of a water soluble polymer. In this manner, the rate of ink absorption is accomplished, and a drying property and glossiness can be enhanced.